

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>			Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10759,496</td> </tr> <tr> <td>Filing Date</td> <td>January 16, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Franzen</td> </tr> <tr> <td>Art Unit</td> <td>1634</td> </tr> <tr> <td>Examiner Name</td> <td>Bradley L. Sisson</td> </tr> <tr> <td>Attorney Docket Number</td> <td>297/178/2</td> </tr> </table>		Application Number	10759,496	Filing Date	January 16, 2004	First Named Inventor	Franzen	Art Unit	1634	Examiner Name	Bradley L. Sisson	Attorney Docket Number	297/178/2
Application Number	10759,496															
Filing Date	January 16, 2004															
First Named Inventor	Franzen															
Art Unit	1634															
Examiner Name	Bradley L. Sisson															
Attorney Docket Number	297/178/2															
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (If Known)	MM-DD-YYYY		
	1	US-4,851,331	07-25-1989	Vary et al.	
	2	US-5,185,243	02-09-1993	Ullman et al.	
	3	US-5,413,690	05-09-1995	Kost et al.	
	4	US-5,420,419	05-30-1995	Wood	
	5	US-5,573,907	11-12-1996	Carrino et al.	
	6	US-5,679,524	10-21-1997	Nikiforov et al.	
	7	US-5,770,369	06-23-1998	Meade et al.	
	8	US-5,780,234	07-14-1998	Meade et al.	
	9	US-5,942,388	08-24-1999	Willner et al.	
	10	US-5,952,172	09-14-1999	Meade et al.	
	11	US-6,180,350	01-30-2001	Netzel	
	12	US-6,180,416	01-30-2001	Kumik et al.	
	13	US-6,248,811	06-19-2001	Ottersbach et al.	
	14	US-6,264,825	07-24-2001	Blackburn et al.	
	15	US-6,265,155	07-24-2001	Meade et al.	
	16	US-6,291,188	09-18-2001	Meade et al.	
	17	US-6,306,280	10-23-2001	Reipa et al.	
	18	US-6,355,491	03-12-2002	Zhou et al.	
	19	US-6,391,558	05-21-2002	Henkens et al.	
	20	US-6,403,317	06-11-2002	Anderson	
	21	US-6,479,240	11-12-2002	Kayyem et al.	
	22	US-6,506,564	01-14-2003	Mirkin et al.	
	23	US-6,515,744	02-04-2003	Wei	
	24	US-6,518,024	02-11-2003	Choong et al.	
	25	US-6,528,266	03-04-2003	Meade et al.	
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	27	US-6,576,461	06-10-2003	Heller et al.	
	28	US-6,579,721	06-17-2003	Natan et al.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/759,496
Filing Date	January 16, 2004
First Named Inventor	Franzen
Art Unit	1634
Examiner Name	Bradley L. Sisson
Attorney Docket Number	2971178/2

Sheet	2	of	7
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	29	US-6,582,921	06-24-2003	Mirkin et al.	
	30	US-6,610,491	08-26-2003	Mirkin et al.	
	31	US-6,618,934	09-16-2003	Feldman et al.	
	32	US-2010/0000881	01-07-2010	Franzen et al.	
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)				
	33	WO1997/001646	01-16-1997	UNC		
	34	WO1998/039352	09-11-1998	Shamoto et al.	ABSTRACT	
	35	WO2003/062783	07-31-2003	NCSU		
	36	WO2003/074731	09-12-2003	Molecular Sensing PLC		

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Sheet 3 of 7

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Application Number	10/759,496
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	37	Alvarez et al., "Optical Absorption Spectra of Nanocrystal Gold Molecules," J. Phys. Chem. B. Vol. 101 pgs. 3706-3712 (1997).	
	38	Beydoun et al., "Role of nanoparticles in photocatalysis," Journal of Nanoparticle Research. Vol. 1 pgs. 439-458 (1999).	
	39	Brewer et al., "Formation of Thiolate and Phosphonate Adlayers on Indium-Tin Oxide: Optical and Electronic Characterization," Langmuir. Vol. 18 pgs. 6857-6865 (2002).	
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Complete If Known

Application Number	10/759,496
Filing Date	January 16, 2004
First Named Inventor	Franzen
Art Unit	1634
Examiner Name	Bradley L. Sisson
Attorney Docket Number	297/178/2

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	47	Gould et al., "Efficiencies of Photoinduced Electron-Transfer Reactions: Role of the Marcus Inverted Region in Return Electron Transfer within Geminate Radical-Ion Pairs," Journal of the American Chemical Society. Vol. 112, No. 11 pgs. 4290-4301 (1990).	
	48	Halushka et al., "Patterns of single-nucleotide polymorphisms in candidate genes for blood-pressure homeostasis," Nature Genetics. Vol. 22 pgs. 239-247 (1999).	
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	50	Koide et al., "Effects of spacer-chain length on the photoelectrochemical responses of monolayer assemblies with ruthenium tris(2,2'-bipyridine) - viologen linked disulfides," Thin Solid Films. Vol. 350 pgs. 223-227 (1999).	
	51	Kreibig, U., and Vollmer, M., "Optical Properties of Metal Clusters," Springer Series in Materials Science. (Springer, New York (1995))	
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	55	Logunov et al., "Electron Dynamics of Passivated Gold Nanocrystals Probed by Subpicosecond Transient Absorption Spectroscopy." The Journal of Physical Chemistry B. Vol. 101, No. 19 pgs. 3713-3719 (1997).	
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Sheet	5	of	7	Application Number	10/759,496
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	57	Marinakos et al., "Template Synthesis of One-Dimensional Au, Au-Poly(pyrrole), and Poly(pyrrole) Nanoparticle Arrays," Chem. Mater. Vol. 10 pgs. 1214-1219 (1998).	
	58	Neeves, A.E., and Bimboim, M.H., "Composite structures of the enhancement of nonlinear-optical susceptibility," J. Opt. Soc. Am. B. Vol. 6, No. 4 pgs. 787-796 (1989).	
	59	Nickerson et al., "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay," PNAS. Vol. 87 pgs. 8923-8927 (1990).	
	60	Notice of Allowance corresponding to U.S. Patent Application Serial No. 10/236,205 dated June 28, 2010.	
	61	Notification of Transmittal of the International Search Report or the Declaration corresponding to International Patent Application No. PCT/US02/23174 dated September 2, 2003.	
	62	Official Action corresponding to U.S. Patent Application Serial No. 10/978,678 dated September 9, 2009.	
	63	Official Action corresponding to U.S. Patent Application Serial No. 10/978,678 dated November 12, 2009.	
	64	Official Action corresponding to U.S. Patent Application Serial No. 10/978,756 dated December 31, 2009.	
	65	Ortigao, J.F.R., and Rösch, R., "Synthesis of Modified Oligonucleotides." Access to Nucleic Acid Chemistry. pgs. 1-35 (2000).	
	66	Sauthier et al., "Nanoparticle Layers Assembled through DNA Hybridization: Characterization and Optimization," Langmuir. Vol. 18 pgs. 1825-1830 (2002).	

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	67	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," Science. Vol. 270, No. 5235 pgs. 467-470 (1995).		
	68	Skrabaneck, L., and Campagne, F., "TissueInfo: high-throughput identification of tissue expression profiles and specificity," Nucleic Acids Research. Vol. 29, No. 21 pgs. 1-8 (2001).		
	69	Slides from "Thermographic Detection of Nucleic Acids," presentation by Marc L. Sauthier dated June 10, 2003; Raleigh, North Carolina, pages 1-47.		
	70	Slides from "Thermographic Detection of Nucleic Acids," presentation by Marc L. Sauthier dated August 26, 2004; Raleigh, North Carolina, pages 1-30.		
	71	Slides from Presentation entitled "New Physical Methods for Genomic and Proteomic Analysis. Stefan Franzen. North Carolina State University. Raleigh, North Carolina pages 1-30.		
	72	Smalley et al., "An Indirect Laser-Induced Temperature Jump Determination of the Surface pK _a of 11-Mercaptoundecanoic Acid Monolayers Self-Assembled on Gold," J. Phys. Chem. B. Vol. 103 pgs. 1676-1685 (1999).		
	73	Smalley et al., "Evidence for adsorption of Fe(CN) ₆ ^{3-/4-} on gold using the indirect laser-induced temperature-jump method," J. Electroanal. Chem. Vol. 356 pgs. 181-200 (1993).		
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	77	Swanson et al., "A fully multiplexed CMOS biochip for DNA analysis," Sensors and Actuators B. Vol. 64 pgs. 22-30 (2000).	
	78	Tender et al., "Cyclic Voltammetric Analysis of Ferrocene Alkanethiol Monolayer Electrode Kinetics Based on Marcus Theory," Analytical Chemistry. Vol. 66 pgs. 3173-3181 (1994).	
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